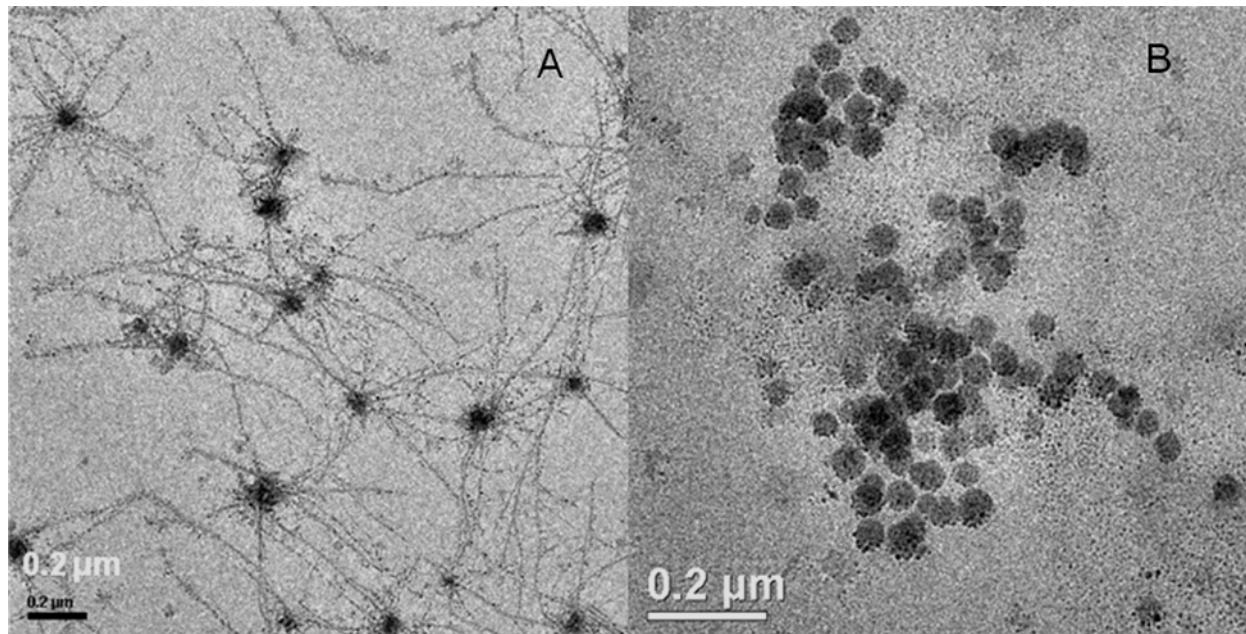


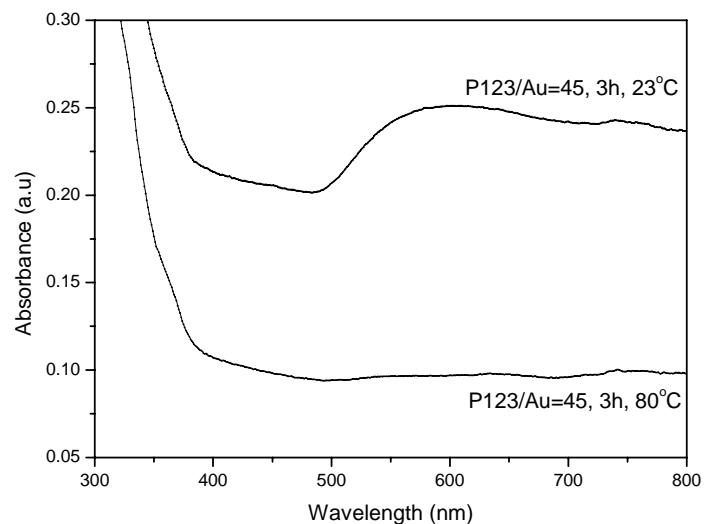
Supplementary information (SI)

A General Approach to Directing Assembly Behavior of Gold Colloids by Co-polymer Molecules, and Tracking and Imaging Solution Nanostructures of the Polymer Molecules

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S1. TEM images for the Au/P123 sample prepared at room temperature at a P123/Au molar ratio of 45:1 and after an aging of 5hrs (A) and 72 hrs (B) respectively.



S2. UV-vis spectra for Au/P123 sample prepared at different temperatures.



S3: Photographs of the Au/P123 composites prepared at a P123/Au molar ratio of 45/1 (left) and of 100:1 (right). The samples were aged at room temperature for 72hrs.